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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/686,822 10/12/2000 Harry J. Chmielewski 53394.000443 5377 7590 04/21/2004 **EXAMINER** Christopher C. Campbell ANDERSON, CATHARINE L Hunton & Williams ART UNIT PAPER NUMBER **Suite 1200** 1900 K Street, N.W. 3761 Washington, DC 20006 DATE MAILED: 04/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	A 1: 4: 1: -	TA UA/)	
	Application No.	Applicant(s)	
Óffice Action Comment	09/686,822	CHMIELEWSKI, HARRY J	
Óffice Action Summary	Examiner	Art Unit	
•	C. Lynne Anderson	3761	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	rith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a treply within the statutory minimum of thi riod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communicatic BANDONED (35 U.S.C. § 133).	on.
Status			
1) Responsive to communication(s) filed on _			
	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice und	·	·	S
Disposition of Claims			
4) ⊠ Claim(s) 1-20 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the con 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 4. 	, —	Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12 discloses in lines 2-3 "per gram of fibrous material in the absorbent core." No fibrous material has been previously disclosed, and therefore it is unclear to what the amount of superabsorbent composition is related.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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Claims 1 and 3-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Harada et al. (6,150,469).

Harada discloses a superabsorbent composition comprising an underneutralized superabsorbent polymer, as described in column 6, lines 24-26. At least 30% of the functional groups of the polymer are in the free acid form, as disclosed in column 6, lines 50-52. The composition further comprises a layered double hydroxide anionic clay, as disclosed in column 17, lines 47-65.

With respect to claims 3-5, the superabsorbent polymer is sodium neutralized, as disclosed in column 8, line 60.

With respect to claim 6, the anionic clay is hydrotalcite, as disclosed in column 17, line 65.

With respect to claim 7, the claim discloses a product-by-process limitation. The claim is drawn to an article, and the final product disclosed by Harada is structurally identical to the product claimed. Harada therefore discloses the article disclosed in the claim.

With respect to claims 8 and 9, the superabsorbent polymer and anionic clay are present in a ration ranging from 1:1 to 1:10, as disclosed in column 18, lines 19-25.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harada et al. (6,150,469) as applied to claim 1 above, and further in view of Jones, Sr. (3,794,034).

Harada discloses all aspects of the claimed invention but remains silent as to the pH range. Jones discloses an absorbent article having a pH in the range of 3.5 to 6.0, as described in column 1, lines 34-40. This pH range is preferred for absorbent articles because it inhibits bacterial growth, as disclosed in column 1, lines 52-56. It would therefore be obvious to one of ordinary skill in the art at the time of invention to construct the composition of Harada with a pH in the range of 3.5-6.0, as taught by Jones, to inhibit bacterial growth.

Claims 10-12 and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harada et al. (6,150,469) in view of Masaki et al. (5,821,179).

Harada discloses a superabsorbent composition comprising an underneutralized superabsorbent polymer, as described in column 6, lines 24-26. At least 30% of the functional groups of the polymer are in the free acid form, as disclosed in column 6, lines 50-52. The composition further comprises a layered double hydroxide anionic clay, as disclosed in column 17, lines 47-65. Harada discloses the superabsorbent composition can be used in an absorbent article, as described in column 1, lines 14-16, but remains silent as to the structure of the absorbent article.

Masaki discloses an absorbent article 100, as shown in figure 12, comprising a liquid pervious topsheet 1, a liquid impervious backsheet 3, and an absorbent core 2.



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The absorbent core 2 includes fluff pulp 12 and a superabsorbent composition 16, as shown in figure 1B. The mixture of pulp and superabsorbent reduces gel blocking, as disclosed in column 7, lines 7-13.

It would therefore be obvious to one of ordinary skill in the art at the time of invention to produce an absorbent article comprising the superabsorbent composition of Harada with the structure taught by Masaki to reduce gel blocking of the superabsorbent composition.

With respect to claim 11, Harada, as modified by Masaki, discloses all aspects of the claimed invention with the exception of the superabsorbent present in the amount ranging from about 0.2 to about 0.8 grams per gram of fluff pulp. It would have been obvious to one of ordinary skill in the art at the time of invention to include the superabsorbent in the range of about 0.2 to about 0.8 grams per gram of fluff pulp, since it has been held that where the general conditions of the claim (i.e. a ratio of superabsorbent to fluff pulp) are known in the art, finding the optimum or workable ranges requires only routine skill in the art.

With respect to claim 12, Harada, as modified by Masaki, discloses all aspects of the claimed invention with the exception of the superabsorbent present in the amount ranging from about 3 to about 10 grams per gram of fibrous material. It would have been obvious to one of ordinary skill in the art at the time of invention to include the superabsorbent in the range of about 8 to about 10 grams per gram of fibrous material, since it has been held that where the general conditions of the claim (i.e. a ratio of



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superabsorbent to fibrous material) are known in the art, finding the optimum or workable ranges requires only routine skill in the art.

With respect to claims 14-16, the superabsorbent polymer is sodium neutralized, as disclosed in column 8, line 60.

With respect to claim 17, the anionic clay is hydrotalcite, as disclosed in column 17, line 65.

With respect to claim 18, the claim discloses a product-by-process limitation.

The claim is drawn to an article, and the final product disclosed by Harada is structurally identical to the product claimed. Harada therefore discloses the article disclosed in the claim.

With respect to claims 19 and 20, the superabsorbent polymer and anionic clay are present in a ration ranging from 1:1 to 1:10, as disclosed in column 18, lines 19-25.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harada et al. (6,150,469) in view of Masaki et al. (5,821,179) as applied to claim 10 above, and further in view of Jones, Sr. (3,794,034).

Harada, as modified by Masaki, discloses all aspects of the claimed invention but remains silent as to the pH range. Jones discloses an absorbent article having a pH in the range of 3.5 to 6.0, as described in column 1, lines 34-40. This pH range is preferred for absorbent articles because it inhibits bacterial growth, as disclosed in column 1, lines 52-56. It would therefore be obvious to one of ordinary skill in the art at

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the time of invention to construct the composition of Harada with a pH in the range of 3.5-6.0, as taught by Jones, to inhibit bacterial growth.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents 5,326,819; 5,478,879; and 5,797,893 pertain to superabsorbent compositions including hydrotalcite. U.S. Patents 4,888,238; 5,607,550; and 6,313,231 pertain to partially neutralized superabsorbent compositions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Lynne Anderson whose telephone number is (703) 306-5716. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Calvert John can be reached on (703) 305-1025. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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